

Terry P Bigioni

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4756224/publications.pdf>

Version: 2024-02-01

32
papers

3,946
citations

304743

22
h-index

395702

33
g-index

33
all docs

33
docs citations

33
times ranked

5209
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrastable silver nanoparticles. <i>Nature</i> , 2013, 501, 399-402.	27.8	1,023
2	Kinetically driven self assembly of highly ordered nanoparticle monolayers. <i>Nature Materials</i> , 2006, 5, 265-270.	27.5	1,021
3	28 kDa Alkanethiolate-Protected Au Clusters Give Analogous Solution Electrochemistry and STM Coulomb Staircases. <i>Journal of the American Chemical Society</i> , 1997, 119, 9279-9280.	13.7	300
4	Partial coalescence of drops at liquid interfaces. <i>Nature Physics</i> , 2006, 2, 254-257.	16.7	241
5	Glutathione-Stabilized Magic-Number Silver Cluster Compounds. <i>Journal of the American Chemical Society</i> , 2010, 132, 13141-13143.	13.7	221
6	Hydrogen-bonded structure and mechanical chiral response of a silver nanoparticle superlattice. <i>Nature Materials</i> , 2014, 13, 807-811.	27.5	128
7	Chemistry and Structure of Silver Molecular Nanoparticles. <i>Accounts of Chemical Research</i> , 2018, 51, 3104-3113.	15.6	123
8	Mass Spectrometric Identification of Silver Nanoparticles: The Case of Ag ₃₂ (SG) ₁₉ . <i>Analytical Chemistry</i> , 2012, 84, 5304-5308.	6.5	112
9	Dynamics of drop coalescence at fluid interfaces. <i>Journal of Fluid Mechanics</i> , 2009, 620, 333-352.	3.4	91
10	Green synthesis of gold and silver nanoparticles: Challenges and opportunities. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018, 12, 91-100.	5.9	85
11	Fluorescence from Molecular Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20728-20734.	3.1	68
12	Liquid-phase synthesis of thiol-derivatized silver nanocrystals. <i>Materials Letters</i> , 1997, 30, 321-325.	2.6	49
13	Energy Transfer from Fluorescent Proteins to Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17587-17593.	3.1	49
14	Majority Carrier Type Control of Cobalt Iron Sulfide (Co _x Fe _{1-x} S ₂) Pyrite Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5706-5713.	3.1	45
15	Confirmation of a de novo structure prediction for an atomically precise monolayer-coated silver nanoparticle. <i>Science Advances</i> , 2016, 2, e1601609.	10.3	39
16	Temporal stability of magic-number metal clusters: beyond the shell closing model. <i>Nanoscale</i> , 2013, 5, 2036.	5.6	37
17	M ₄ Ag ₄₄ (p-MBA) ₃₀ Molecular Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11238-11249.	3.1	37
18	Vertically Aligned Dense Carbon Nanotube Growth with Diameter Control by Block Copolymer Micelle Catalyst Templates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20102-20106.	2.6	36

#	ARTICLE	IF	CITATIONS
19	Wet Chemical Synthesis of Monodisperse Colloidal Silver Nanocrystals Using Digestive Ripening. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15916-15923.	3.1	35
20	M ₃ Ag ₁₇ (SPh) ₁₂ Nanoparticles and Their Structure Prediction. <i>Journal of the American Chemical Society</i> , 2015, 137, 11550-11553.	13.7	33
21	Optical Properties and Structural Relationships of the Silver Nanoclusters Ag ₃₂ (SG) ₁₉ and Ag ₁₅ (SG) ₁₁ . <i>Journal of Physical Chemistry C</i> , 2017, 121, 1349-1361.	3.1	33
22	Linear and Nonlinear Optical Response in Silver Nanoclusters: Insight from a Computational Investigation. <i>Journal of Physical Chemistry A</i> , 2016, 120, 507-518.	2.5	31
23	Synthetic and Postsynthetic Chemistry of M ₄ Au _x Ag ₄₄ “(x)-MBA) ₃₀ Alloy Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13166-13174.	3.1	22
24	High-Yield Paste-Based Synthesis of Thiolate-Protected Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10964-10970.	3.1	19
25	Model for the Phase Transfer of Nanoparticles Using Ionic Surfactants. <i>Langmuir</i> , 2014, 30, 13837-13843.	3.5	18
26	Interactions between Ultrastable Na ₄ Ag ₄₄ (SR) ₃₀ Nanoclusters and Coordinating Solvents: Uncovering the Atomic-Scale Mechanism. <i>ACS Nano</i> , 2020, 14, 8433-8441.	14.6	14
27	Wafer-scale self-assembled plasmonic thin films. <i>Thin Solid Films</i> , 2011, 519, 6077-6084.	1.8	12
28	Critical island size, scaling, and ordering in colloidal nanoparticle self-assembly. <i>Physical Review E</i> , 2014, 90, 032406.	2.1	9
29	M ₄ Au ₁₂ Ag ₃₂ (p)-MBA) ₃₀ (M = Na,) <i>Tj ETQq1 1 0.784314 rg BT</i> E: <i>Crystallographic Communications</i> , 2018, 74, 987-993.	0.5	6
30	Sequential Growth as a Mechanism of Silver-Glutathione Monolayer-Protected Cluster Formation. <i>Small</i> , 2020, 17, 2002238.	10.0	4
31	Fabrication of CdS/Hg(1-x)Cd _x Te nanowire heterostructures on conductive glass using templated electrodeposition. <i>Materials Science in Semiconductor Processing</i> , 2014, 25, 18-26.	4.0	2
32	The Role of Oxidation during the Synthesis of Silver-Glutathione Monolayer-Protected Clusters. <i>Small</i> , 2021, 17, 2005663.	10.0	1